

Title (en)
A TORSIONAL VIBRATION DAMPER

Title (de)
ROTATIONSSCHWINGUNGSDÄMPFER

Title (fr)
AMORTISSEUR DE VIBRATIONS TORSIONNELLES

Publication
EP 0746702 A1 19961211 (EN)

Application
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Abstract (en)
[origin: US5761969A] PCT No. PCT/GB95/00381 Sec. 371 Date Jan. 21, 1997 Sec. 102(e) Date Jan. 21, 1997 PCT Filed Feb. 23, 1995 PCT Pub. No. WO95/23300 PCT Pub. Date Aug. 31, 1995A torsional vibration damper has an annular driven member and an annular inertia member, coaxial with the driven member. The inertia member is capable of limited rotational movement relative to the driven member. At least one set of variable volume chambers is arranged so that the relative movement of the driven and inertia members in a first direction decreases the volume of one of the chambers and increases the volume of the other chamber, and relative movement in the opposite direction causes a reverse variation in the volume of the chambers. At least one annular spring is carried by one of the driven and inertia members. A connection is provided between the variable volume chambers and at least one side of the spring. The damper is supplied with a source of fluid in the chambers whereby relative rotational movement of the drive and inertia members pressurizes the one side of the spring causing it to flex. At least one of the chambers is provided with inlet and outlet valves so as to enable it to pump fluid from the source of fluid to the pressurized side of the spring.

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